ABSTRACT OF THE DISCLOSURE

A negative electrode of the present invention has an active material layer composed of an intermetallic compound on a collector. The intermetallic compound is capable of occluding/desorbing lithium and contains at least one kind of element A selected from Sn, In, Ge, Ga, Pb, Al, Sb, and Si, and an element X that does not substantially react with Li. In the negative electrode, a ratio I_b/I_a of highest peak intensities I_a and I_b of X-ray diffraction peaks derived from the intermetallic compound and the element A is 0.1 or less. By configuring a non-aqueous secondary battery using the above-mentioned negative electrode, the charging/discharging efficiency and cycle characteristics of a thin film electrode used for the negative electrode of the non-aqueous secondary battery are enhanced.